**Task 1**

* We define a function concatenate\_strings that takes two string slices (&str) as arguments and returns a new String.
* Inside the function, we create an empty String called result to store the concatenated string.
* We use the push\_str method to append the contents of the first string slice (string1) and then the second string slice (string2) to the result string.The function returns the result string.
* In the main function, we create two String variables, string1 and string2, with the desired initial values.
* We then call the concatenate\_strings function with references to string1 and string2.
* The result is stored in the concatenated\_string variable, which we print to the console using println!.
* This program demonstrates ownership, borrowing, and references by passing references to the original strings to the concatenate\_strings function, allowing us to concatenate them without transferring ownership.